NEWZEN CONSULTANTS BANGALORE

NEW TECHNOLOGIES TO INNOVATE

NO.NC/QC/YD/2019-20/W4-SS

Date: 20-01-2020

To,
The Executive Engineer,
Yelahanka Division
Bangalore.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Subject: Regarding Quality Report for the below mentioned work.

Name of work: Improvements to roads and drains at SC/ST Area in ward no -04

Item No	Description of work	Unit	Qty	No of Samples Tested	Standards
1	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @	Cum	428.26	5	Per 100 cum
2	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs.	Cum	151.37	6	Per 50 cum
3	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C workincluding	Ton	9.85	3	For each dia
4	KSRRB M400- Wet Mix Macadam KSRRB M400-17. Providing, laying, spreading and	Cum	357.40	2	Per 200 cum
5	Cement concrete pavement.Construction of un-reinforced plain cement concrete	Cum	373.37	16	Per 50 cum

With respect to the above subject & name of the work, we have tested the materials and the Quantity of above mentioned items of the work was found to be completed satisfactorily for the 1st and Final bill

Thanking you,

With Regards,

For Newzen Consultants Bangalore

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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NC/QC/YD/2019-20/W4-SS-C1 Date: 04-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**178 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.29 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.96 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.91 N/Sq mm**	Shall not be less than 27 N/Sqmm

Note:- The above tested sample satisfies the requirement of IS:12269-1987, IS:8112-1989

K.R

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NC/QC/YD/2019-20/W4-SS-PCC1

Date: 04-11-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	68.95	0 -20	30- 70
10mm	20.35	0 -5	10- 35
4.75mm	4.70	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	95.05	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	88.10	60-95	75-100	85-100	
01.18	70.80	30-70	55-90	75-100	
600.mic	54.05	15-34	35-59	60-79	
300.mic	21.90	5-20	8-30	12-40	
150.mic	7.10	0-10	0-10	0-10	

Note: The above tested sample satisfies the requirement of IS:383-2007

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NC/QC/YD/2019-20/W4-SS-C2

Date: 07-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	174 min	Shall not be less than 30 min
2	Final setting time	271 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.96 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.87 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.54 N/Sq mm	Shall not be less than 27 N/Sqmm

Note:- The above tested Sample satisfies the requirement of IS:12269-1987, IS:8119-1989

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NC/QC/YD/2019-20/W4-SS-PCC2

Date: 25-11-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	61.95	0 -20	30- 70
10mm	28.40	0 -5	10- 35
4.75mm	3.85	-----	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.05	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	82.75	60-95	75-100	85-100	
01.18	77.90	30-70	55-90	75-100	
600.mic	41.05	15-34	35-59	60-79	
300.mic	26.80	5-20	8-30	12-40	
150.mic	7.55	0-10	0-10	0-10	

NOTE: The above tested Sample satisfies the requirement of IS:383 - 2007

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Date: 22-11-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Aggregate Impact Value	**27.41 %**	Not more than 30.00 %
2.	Combined Flakiness and Elongation index, %	**28.92 %**	Not more than 35.0 %
3.	Water absorption, %	**0.40 %**	Not more than 2.0 %
4.	Plasticity Index, %	**NP**	Not more than 6.0 %

Note :- The above tested Sample Satisfy the reaurement of IS:383 - 2007.

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NC/QC/YD/2019-20/W4-SS-C3 Date: 25-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**167 min**	Shall not be less than 30 min
2	Final setting time	**290 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.84 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.96 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.79 N/Sq mm**	Shall not be less than 27 N/Sqmm

Note: The above tested sample is satisfies the requirement of IS:12269-1987, IS:810-1989

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NC/QC/YD/2019-20/W4-SS–PCC3

Date: 27-11-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	59.10	0 -20	30- 70
10mm	27.35	0 -5	10- 35
4.75mm	3.95	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	99.10	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	84.70	60-95	75-100	85-100	
01.18	71.05	30-70	55-90	75-100	
600.mic	54.40	15-34	35-59	60-79	
300.mic	22.55	5-20	8-30	12-40	
150.mic	6.20	0-10	0-10	0-10	

Note: The above tested sample satisfies the requirement of IS:383- 2007

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NC/QC/YD/2019-20/W4-SS–C4

Date: 27-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53.
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	161 min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.04 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.97 mm	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	28.14 N/Sq mm	Shall not be less than 27 N/Sqmm

NOTE: The above tested sample satisfied the requirement of IS:12269-1987, IS: 8112-1989

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NC/QC/YD/2019-20/W4-SS-PCC4

Date: 30-11-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	61.75	0 -20	30- 70
10mm	26.10	0 -5	10- 35
4.75mm	3.40	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.25	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	88.70	60-95	75-100	85-100	
01.18	72.40	30-70	55-90	75-100	
600.mic	41.15	15-34	35-59	60-79	
300.mic	16.85	5-20	8-30	12-40	
150.mic	7.60	0-10	0-10	0-10	

NOTE:- The above tested Sample Satisfies the requirement of IS:383-2007

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NC/QC/YD/2019-20/W4-SS-C5

Date: 30-11-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**159 min**	Shall not be less than 30 min
2	Final setting time	**295 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.07 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.94 mm**	Shall not be more than 10 mm
5	Compressive strength d) 3 days (average of three results)	**28.40 N/Sq mm**	Shall not be less than 27 N/Sqmm

Note: The above tested Sample Satisfies the requirement of IS: 12269-1987, IS: 8119-1989

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NC/QC/YD/2019-20/W4-SS-CA1 Date: 07-11-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Improvements to roads and drains at SC/ST Area in ward no -04.}
Ref.: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Satellite Town Sub Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.30	85-100	90 - 100
10 mm	41.55	0 - 20	25 - 55
4.75 mm	3.40	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	24.17 %	Not to exceed 25 %
2.	Crushing value	29.62 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

NOTE: The above tested Sample Satisfies the requirement of IS:383-2007

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NC/QC/YD/2019-20/W4-SS-FA1

Date: 07-11-2019

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.
(Project*: Improvements to roads and drains at SC/ST Area in ward no -04.)
Ref.: Material testing/PMC/19-20.
Report Required for: Assistant Executive Engineer.
Yelahanka Satellite Town Sub Division.
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	97.15	90-100	90-100	90-100	The Sample Confirms to Grading Zone-II
02.36	82.90	60-95	75-100	85-100	
01.18	78.60	30-70	55-90	75-100	
600. mic	40.25	15.34	35-59	60-79	
300.mic	24.75	5-20	8-30	12-40	
150.mic	8.45	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	18.12 %	——
2	Silt Content	——	0.60%	Not more than 8%
3	Specific Gravity	——	2.61	——

Note: The above tested Sample satisfies the requirement of IS:383 - 2007

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